

We claim:

1. A low spinning, multi-layer golf ball comprising:
  - a core assembly;
  - a first cover layer disposed on said core assembly;
  - a second cover layer disposed about said first cover layer, said
- 5 second cover layer defining a plurality of dimples along the exterior surface of said second cover, the hardness of said second cover being less than the hardness of said first cover; and
  - at least 10 parts by weight of a density-increasing filler material
  - disposed in said second cover layer in an amount sufficient to decrease the spin
  - 10 rate of the golf ball;
  - wherein said filler material is a metal selected from the group consisting of brass, tungsten, bismuth, boron, bronze, cobalt, copper, inconel metal, iron, molybdenum, nickel, stainless steel, zirconium oxide, aluminum, and combinations thereof.
2. The golf ball of claim 1, wherein said core assembly is a solid core.
3. The golf ball of claim 1, wherein said core assembly comprises a layer of a wound elastomer.
4. The golf ball of claim 1, wherein said core assembly comprises a liquid core.
5. The golf ball of claim 1, wherein said first cover layer comprises ionomer.
6. The golf ball of claim 5, wherein said ionomer is selected from the group consisting of magnesium ionomer, zinc ionomer, sodium ionomer, lithium ionomer, and blends thereof.
7. The golf ball of claim 1, wherein said second cover layer comprises a blend of a relatively soft ionomer and a relatively hard ionomer.

8. The golf ball of claim 1, wherein said second cover layer comprises a terpolymer ionomer.

9. The golf ball of claim 1, wherein said second cover layer has a Shore D hardness of from about 58 to about 65.

10. The golf ball of claim 9, wherein said second cover layer has a Shore D hardness of from about 60 to about 63.

11. The golf ball of claim 1, wherein said first cover layer is comprised of a material selected from the group consisting of an ionomer resin, a polyamide, a polyurethane, a polyphenylene oxide, and a polycarbonate.

12. The golf ball of claim 1, wherein said second cover layer is comprised of a material selected from the group consisting of an ionomer resin, a thermoplastic elastomer, a thermosetting elastomer, a polyurethane, a polyester and a polyether amide.

13. The golf ball of claim 1, wherein said first cover layer has a thickness of about 0.050 inches and said second cover layer has a thickness of about 0.055 inches.

14. The golf ball of claim 1, wherein said core assembly has a diameter of about 1.50 inches.

15. The golf ball of claim 1, wherein said golf ball has an outer diameter of about 1.71 inches.

16. The golf ball of claim 1, wherein said core assembly is formed of a soft compression material.

17. The golf ball of claim 1, wherein said first cover layer has a Shore D hardness of at least 65 and said second cover layer has a Shore D hardness of less than 65.

18. The golf ball of claim 1, wherein said plurality of dimples defined in said second cover layer are arranged in a pattern covering at least 70% of the surface area of said golf ball.

19. A multi-layer golf ball comprising:  
a core;  
a first cover layer disposed on said core, said first cover layer including an ionomeric material;  
5 a second outermost cover layer disposed on said first cover layer, said second cover layer defining a plurality of dimples along the exterior of said golf ball and said dimples constituting at least 70 percent of the surface area of said golf ball, said second cover having a hardness that is softer than the hardness of said first cover layer and within a range of from about 58 to about 65  
10 on the Shore D scale; and  
at least 10 parts by weight of a density-increasing filler material disposed in said first cover layer in an amount sufficient to decrease the spin rate of the golf ball.

20. The golf ball of claim 19, wherein said core assembly is a solid core.

21. (Original) The golf ball of claim 19, wherein said core assembly comprises a layer of a wound elastomer.

22. (Original) The golf ball of claim 19, wherein said core assembly comprises a liquid core.

23. (Original) The golf ball of claim 19, wherein said ionomeric material is selected from the group consisting of magnesium ionomer, zinc ionomer, sodium ionomer, lithium ionomer, and blends thereof.

24. (Original) The golf ball of claim 19, wherein said second cover layer comprises a blend of a relatively soft ionomer and a relatively hard ionomer.

25. (Original) The golf ball of claim 19, wherein said second cover layer comprises a terpolymer ionomer.

26. (Original) The golf ball of claim 19, wherein said second cover layer has a Shore D hardness of from about 60 to about 63.

27. (Previously Added) The golf ball of claim 19, wherein said first cover layer has a specific gravity of about 1.18 or less.